

**Flood Control Project Maintenance
Levee Inspections**

LMA District Cover Sheet

Spring 2012 Levee Inspection Results

Reclamation District No. 2063 Crows Landing

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*

SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2012 Levee Inspection Results

Reclamation District No. 2063 Crows Landing

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Right	10.63
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/22/2012 - 5/22/2012			
DWR Inspector	Richard Willoughby			
Accompanied By				

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2063 Crows Landing

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector	
L/MR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment			GPS Latitude/Longitude	Issue No.
	Start	End								Start	End
1	Earthen Levee	Operations & Maintenance Manuals	WS	M Ma						°	° 35
										°	°
										DWR ID: DWR_RD2063_01_s_2012_35	
2	Earthen Levee	Emergency Supplies & Equipment	WS	A Ma						°	° 36
										°	°
										DWR ID: DWR_RD2063_01_s_2012_36	
3	Earthen Levee	Flood Preparedness & Training	WS	M Ma						°	° 37
										°	°
										DWR ID: DWR_RD2063_01_s_2012_37	
4	0.00 10.58	Earthen Levee	Crown Surface / Depressions / Rutting	CR Ma	M	C3 : Add appropriate gravel or road base. Grade and compact.				37.478842 ° -121.044627 °	37.390455 ° -120.941945 ° 27
										DWR ID: DWR_RD2063_01_s_2012_27	
5	0.02 0.51	Earthen Levee	Vegetation	WSA/W Ma	V2	: Remove the wild growth other than native grasses from the levee slopes.				37.478550 ° -121.044603 °	37.471548 ° -121.044553 ° 3
										DWR ID: DWR_RD2063_01_s_2012_3	
6	0.02 0.51	Earthen Levee	Vegetation	LS A/W Ma	V2	: Remove the wild growth other than native grasses from the levee slopes.				37.478548 ° -121.044605 °	37.471545 ° -121.044553 ° 2
										DWR ID: DWR_RD2063_01_s_2012_2	
7	0.03 0.49	Earthen Levee	Encroachments	LS En	U	AD : Agricultural Ditch				37.478470 ° -121.044598 °	37.471848 ° -121.044635 ° 18
						Inspector Comments: Ditch on landside has encroached into the berm and toe of the levee.					Y
										DWR ID: DWR_RD2063_01_s_2012_18	
8	0.14 0.22	Earthen Levee	Encroachments	LS A/W En	PR	: Prunings				37.476855 ° -121.044622 °	37.475658 ° -121.044603 ° 16
										DWR ID: DWR_RD2063_01_s_2012_16	
9	1.35 1.35	Earthen Levee	Encroachments	LS En	M	RA : Ramp				37.464308 ° -121.032603 °	37.464308 ° -121.032603 ° 6
						Inspector Comments: Ramp does not meet CVFPB standards. Ramp has 18-20" vertical cut at landside shoulder.					Y
										DWR ID: DWR_RD2063_01_s_2012_6	
10	1.47 1.50	Earthen Levee	Vegetation	LS A/W Ma	V2	: Remove the wild growth other than native grasses from the levee slopes.				37.462723 ° -121.032020 °	37.462303 ° -121.031928 ° 8
										DWR ID: DWR_RD2063_01_s_2012_8	
11	1.54 1.54	Earthen Levee	Slope Stability	LS A/W Ma	S3	: Repair the levee slope damaged by vehicle traffic and prevent access where possible.				37.461762 ° -121.031822 °	37.461762 ° -121.031822 ° 10
										DWR ID: DWR_RD2063_01_s_2012_10	
12	1.57 1.57	Earthen Levee	Animal Control	LS Ma	M	A1 : Exterminate rodents and backfill and compact or grout burrows.				37.461322 ° -121.031785 °	37.461322 ° -121.031785 ° 4
										DWR ID: DWR_RD2063_01_s_2012_4	
13	1.69 1.69	Earthen Levee	Animal Control	LS Ma	M	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.				37.459813 ° -121.032372 °	37.459813 ° -121.032372 ° 11
										DWR ID: DWR_RD2063_01_s_2012_11	

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2063 Crows Landing

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector	
L/MR No	Levee Mile		Category	Item	* Location Start	* Rating +	Action/Comment	GPS Latitude/Longitude		Issue No. Start	Photo	
	Start	End						En	Ma			
14	1.88	1.92	Earthen Levee	Erosion / Bank Caving	WS	U Ma	E2 : Schedule repair of erosion site prior to the next inspection.	37.457355 °	37.456630 °	116		
								-121.033737 °	-121.033797 °	Y	DWR ID: DWR_RD2063_01_s_2012_116	
15	1.95	1.95	Earthen Levee	Encroachments	LS	M En	GA : Garbage Inspector Comments: Garbage at landside toe and berm.	37.456460 °	37.456460 °	117		
								-121.033730 °	-121.033730 °	Y	DWR ID: DWR_RD2063_01_s_2012_117	
16	2.31	2.47	Earthen Levee	Erosion / Bank Caving	LS	A/W Ma	E2 : Schedule repair of erosion site prior to the next inspection. Inspector Comments: Erosion is occurring around a 10-12 inch concrete irrigation pipe at landside toe.	37.451927 °	37.450290 °	12		
								-121.030555 °	-121.028592 °	Y	DWR ID: DWR_RD2063_01_s_2012_12	
17	2.32	2.52	Earthen Levee	Vegetation	LS	A/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.451895 °	37.449892 °	1		
								-121.030492 °	-121.028072 °		DWR ID: DWR_RD2063_01_s_2012_1	
18	2.53	2.56	Earthen Levee	Vegetation	LS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Dense vegetation at landside toe.	37.449787 °	37.449432 °	13		
								-121.027943 °	-121.027472 °	Y	DWR ID: DWR_RD2063_01_s_2012_13	
19	2.72	2.79	Earthen Levee	Animal Control	LS	M Ma	A2 : Repair the levee slope damaged by livestock and prevent large animal access.	37.447512 °	37.446574 °	982		
								-121.026050 °	-121.025643 °		DWR ID: DWR_RD2063_01_s_2012_982	
20	2.78	2.84	Earthen Levee	Vegetation	LS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Dense vegetation at landside toe.	37.446722 °	37.445925 °	14		
								-121.025640 °	-121.025528 °		DWR ID: DWR_RD2063_01_s_2012_14	
21	3.07	3.26	Supplemental DWR Erosion Survey	WSA/W Ma	Inspector Comments: 10/14/2011. This site was reported on Jan. 18. 2011. The first 100' of erosion appears to be a pervious cut with fresh activity. At station 2+00 the district president indicated that 60 - 80' of material eroded. The remainder berm width is at least 32 ft from the levee toe. As the levee is not at risk at this time, the site is not rated, but needs to be closely monitored for possible erosion failure during the upcoming flooding season. [2011 Site ID: RD2063U01RM103.49]							DWR ID: DWR_RD2063_01_s_2012_34
22	3.16	3.16	Earthen Levee	Encroachments	WS	M En	RA : Ramp Inspector Comments: Unauthorized ramp installed to access erosion site. Ramp should be removed or the district should apply for a permit to maintain ramp.	37.442510 °	37.442510 °	26		
								-121.023772 °	-121.023772 °	Y	DWR ID: DWR_RD2063_01_s_2012_26	
23	3.17	3.17	Earthen Levee	Encroachments	WS	C Ma	MA : Material Inspector Comments: LMA has a stockpile of concrete for erosion repair. Revetment is not according to Title 23 standards. Rebar should be removed from concrete. .	37.442478 °	37.442478 °	19		
								-121.023593 °	-121.023593 °		DWR ID: DWR_RD2063_01_s_2012_19	
24	3.30	3.30	Earthen Levee	Encroachments	WS	C Ma	MA : Material Inspector Comments: Concrete rubble should be free of rebar before using on river bank.	37.441723 °	37.441723 °	28		
								-121.021552 °	-121.021552 °		DWR ID: DWR_RD2063_01_s_2012_28	

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2063 Crows Landing

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector
MR No	Levee Mile		Category	Item	* Location	* Rating	Action/Comment	GPS Latitude/Longitude		Issue No.	
	Start	End						Start	End		
25	3.82	3.82	Earthen Levee	Animal Control	LS Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.435732 ° -121.016090 °	37.435732 ° -121.016090 °	29	Y	
										DWR ID: DWR_RD2063_01_s_2012_29	
26	3.96	4.10	Earthen Levee	Vegetation	LS A/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.434403 ° -121.014298 °	37.432653 ° -121.013327 °	17		
										DWR ID: DWR_RD2063_01_s_2012_17	
27	4.04	4.04	Earthen Levee	Encroachments	WS En	PI : Pipe Inspector Comments: Inch and a half electrical conduit 1 foot below levee crown and slope should be removed.	37.433255 ° -121.013560 °	37.433255 ° -121.013560 °	15		
										DWR ID: DWR_RD2063_01_s_2012_15	
28	4.24	4.24	Earthen Levee	Encroachments	LS Ma	MA : Material Inspector Comments: Rubber truck tires on landside slope should be removed.	37.431080 ° -121.011897 °	37.431080 ° -121.011897 °	30		
										DWR ID: DWR_RD2063_01_s_2012_30	
29	4.54	4.61	Earthen Levee	Encroachments	LS En	AD : Agricultural Ditch Inspector Comments: Irrigation ditch at landside toe also erosion on landside toe.	37.428875 ° -121.007517 °	37.429223 ° -121.006215 °	118		
										DWR ID: DWR_RD2063_01_s_2012_118	
30	4.68	4.68	Earthen Levee	Encroachments	WS En	CR : Crops Inspector Comments: Landowner planted grape vines and fruit trees on waterside berm without a permit from the CVFPB.	37.429638 ° -121.005348 °	37.429638 ° -121.005348 °	31		
										DWR ID: DWR_RD2063_01_s_2012_31	
31	4.71	4.71	Earthen Levee	Trim / Thin Trees	LS A/W Ma	T1 : Trim trees to at least five feet above ground level.	37.429892 ° -121.004768 °	37.429892 ° -121.004768 °	20		
										DWR ID: DWR_RD2063_01_s_2012_20	
32	5.05	5.11	Earthen Levee	Encroachments	LS En	AD : Agricultural Ditch	37.428202 ° -120.999518 °	37.427518 ° -120.999362 °	119		
										DWR ID: DWR_RD2063_01_s_2012_119	
33	5.12	5.12	Earthen Levee	Encroachments	WS Ma	GA : Garbage Inspector Comments: Old pipes on waterside slope should be removed.	37.427375 ° -120.999343 °	37.427375 ° -120.999343 °	21		
										DWR ID: DWR_RD2063_01_s_2012_21	
34	5.13	5.13	Earthen Levee	Encroachments	LS C Ma	PI : Pipe Inspector Comments: Landowner modified pipe structure and cut into landside slope without permission from CVFPB. See field investigation report for more detail.	37.427210 ° -120.999288 °	37.477210 ° -120.992880 °	50		
										DWR ID: DWR_RD2063_01_s_2012_50	
35	5.48	5.48	Earthen Levee	Slope Stability	LS A/W Ma	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.	37.422827 ° -121.001788 °	37.422827 ° -121.001788 °	32		
										DWR ID: DWR_RD2063_01_s_2012_32	
36	6.05	6.63	Earthen Levee	Vegetation	WSA/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.416235 ° -120.997563 °	37.411285 ° -120.998188 °	22		
										DWR ID: DWR_RD2063_01_s_2012_22	
37	6.09	6.09	Earthen Levee	Animal Control	LS Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.415887 ° -120.998083 °	37.415887 ° -120.998083 °	5		
										DWR ID: DWR_RD2063_01_s_2012_5	

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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2063 Crows Landing

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector	
MR No	Levee Mile		Category	Item	* Location Start	* Rating +	Action/Comment			GPS Latitude/Longitude	Issue No.
	Levee Mile	Start					Start	End	Photo		
38	6.15	6.36	Earthen Levee	Vegetation	LS Ma	U	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.415488 ° -120.998988 °	37.413473 ° -121.001680 °	120 Y	DWR ID: DWR_RD2063_01_s_2012_120
39	6.89	6.89	Earthen Levee	Trim / Thin Trees	LS Ma	M	T1 : Trim trees to at least five feet above ground level.	37.411785 ° -120.993548 °	37.411785 ° -120.993548 °	39	DWR ID: DWR_RD2063_01_s_2012_39
40	7.69	7.69	Earthen Levee	Trim / Thin Trees	LS Ma	A/W	T1 : Trim trees to at least five feet above ground level.	37.403516 ° -120.985718 °	37.403516 ° -120.985718 °	7	DWR ID: DWR_RD2063_01_s_2012_7
41	7.81	7.90	Earthen Levee	Vegetation	LS Ma	M	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.402400 ° -120.984087 °	37.401563 ° -120.982775 °	23	DWR ID: DWR_RD2063_01_s_2012_23
42	7.88	7.88	Earthen Levee	Trim / Thin Trees	LS Ma	A/W	T1 : Trim trees to at least five feet above ground level.	37.401774 ° -120.983132 °	37.401774 ° -120.983132 °	9	DWR ID: DWR_RD2063_01_s_2012_9
43	8.06	8.23	Earthen Levee	Vegetation	LS Ma	A/W	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.400930 ° -120.980157 °	37.401148 ° -120.977320 °	24	DWR ID: DWR_RD2063_01_s_2012_24
44	8.17	8.17	Earthen Levee	Trim / Thin Trees	LS Ma	A/W	T1 : Trim trees to at least five feet above ground level.	37.401222 ° -120.978317 °	37.401222 ° -120.978317 °	33	DWR ID: DWR_RD2063_01_s_2012_33
45	8.54	8.54	Earthen Levee	Encroachments	LS En	U	CR : Crops Inspector Comments: Farmer stored hay at landside toe.	37.398673 ° -120.972922 °	37.398673 ° -120.972922 °	121 Y	DWR ID: DWR_RD2063_01_s_2012_121
46	9.44	9.60	Earthen Levee	Vegetation	LS Ma	A/W	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.390727 ° -120.962520 °	37.390683 ° -120.959570 °	25	DWR ID: DWR_RD2063_01_s_2012_25
47	9.62	10.62	Earthen Levee	Vegetation	LS Ma	M	V1 : Control annual grass and weeds on the levee slopes and easements.	37.390680 ° -120.959233 °	37.390468 ° -120.941367 °	114	DWR ID: DWR_RD2063_01_s_2012_114
48	9.62	10.62	Earthen Levee	Vegetation	WS Ma	M	V1 : Control annual grass and weeds on the levee slopes and easements.	37.390677 ° -120.959232 °	37.390470 ° -120.941362 °	115	DWR ID: DWR_RD2063_01_s_2012_115
49	9.67	9.67	Earthen Levee	Erosion / Bank Caving	LS Ma	U	E2 : Schedule repair of erosion site prior to the next inspection. Inspector Comments: 12-24" Vetical cut at landside toe.	37.390668 ° -120.958305 °	37.390668 ° -120.958305 °	122 Y	DWR ID: DWR_RD2063_01_s_2012_122
50	10.40	10.40	Earthen Levee	Erosion / Bank Caving	LS Ma	U	E2 : Schedule repair of erosion site prior to the next inspection. Inspector Comments: 36 -48" vtical cut at landside toe.	37.390538 ° -120.945318 °	37.390538 ° -120.945318 °	123 Y	DWR ID: DWR_RD2063_01_s_2012_123

* Location LS : Land Side WS : Water Side CR : Crown

** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.63	05/22/2012 05/22/2012	Richard Willoughby

Levee Mile Report Line	7
Start Levee Mile	0.03
End Levee Mile	0.49
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking north at ditch on landside berm and toe.	
richard_s_20120313_124.jpg	



Levee Mile Report Line	7
Start Levee Mile	0.03
End Levee Mile	0.49
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking south at canal-ditch at landside berm and toe.	
richard_s_20120313_125.jpg	



Levee Mile Report Line	7
Start Levee Mile	0.03
End Levee Mile	0.49
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking northeast at canal-ditch on landside berm.	
richard_s_20120313_126.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.63	05/22/2012 05/22/2012	Richard Willoughby

Levee Mile Report Line	8
Start Levee Mile	0.14
End Levee Mile	0.22
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking north at prunings stacked on landside toe and berm.	
richard_s_20120313_123.jpg	



Levee Mile Report Line	9
Start Levee Mile	1.35
End Levee Mile	1.35
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking north at ramp and equipment working pad on landside slope with a 18-20" vertical cut at shoulder.	
richard_s_20120313_112.jpg	



Levee Mile Report Line	9
Start Levee Mile	1.35
End Levee Mile	1.35
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking west at 18-20" vertical cut for ramp on landside shoulder and slope	
richard_s_20120313_113.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.63	05/22/2012 05/22/2012	Richard Willoughby

Levee Mile Report Line	9
Start Levee Mile	1.35
End Levee Mile	1.35
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking north at vertical cut on landside shoulder and slope (Spring 2012)	
richard_s_20120529_445.jpg	



Levee Mile Report Line	11
Start Levee Mile	1.54
End Levee Mile	1.54
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Looking east at landside slope damage (six to eight inch erosion) by vehicle	
richard_s_20120313_114.jpg	



Levee Mile Report Line	11
Start Levee Mile	1.54
End Levee Mile	1.54
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Looking west at landside slope damage cause by vehicle traffic.	
richard_s_20120313_115.jpg	



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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.63	05/22/2012 05/22/2012	Richard Willoughby

Levee Mile Report Line	13
Start Levee Mile	1.69
End Levee Mile	1.69
Location	Land Side
Category	Earthen Levee
Item	Animal Control
Looking east at squirrel holes on landside slope.	
richard_s_20120313_116.jpg	



Levee Mile Report Line	14
Start Levee Mile	1.88
End Levee Mile	1.92
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking north at erosion along waterward slope.	
richard_s_20120529_446.jpg	



Levee Mile Report Line	14
Start Levee Mile	1.88
End Levee Mile	1.92
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking east at erosion along waterward slope.	
richard_s_20120529_447.jpg	



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Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.63	05/22/2012 05/22/2012	Richard Willoughby

Levee Mile Report Line	14
Start Levee Mile	1.88
End Levee Mile	1.92
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking south at erosion along waterward slope.	
richard_s_20120529_448.jpg	



Levee Mile Report Line	15
Start Levee Mile	1.95
End Levee Mile	1.95
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking east at garbage at landside toe.	
richard_s_20120529_449.jpg	



Levee Mile Report Line	16
Start Levee Mile	2.31
End Levee Mile	2.47
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking west at slope caving around concrete irrigation pipe on landside toe.	
richard_s_20120313_117.jpg	



* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
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M : Minimally Acceptable
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C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.63	05/22/2012 05/22/2012	Richard Willoughby

Levee Mile Report Line	16
Start Levee Mile	2.31
End Levee Mile	2.47
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking south at additional caving around concrete pipe.	
richard_s_20120313_118.jpg	



Levee Mile Report Line	16
Start Levee Mile	2.31
End Levee Mile	2.47
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking north at site #1 caving around pipe on landside slope.	
richard_s_20120313_119.jpg	



Levee Mile Report Line	16
Start Levee Mile	2.31
End Levee Mile	2.47
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking west at caving around concrete pipe at site #3.	
richard_s_20120313_120.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.63	05/22/2012 05/22/2012	Richard Willoughby

Levee Mile Report Line	16
Start Levee Mile	2.31
End Levee Mile	2.47
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking west at concrete irrigation pipe that runs along landside toe.	
richard_s_20120313_121.jpg	



Levee Mile Report Line	16
Start Levee Mile	2.31
End Levee Mile	2.47
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking southwest at site # 4 of slope caving around concrete irrigation pipe at landside toe.	
richard_s_20120313_122.jpg	



Levee Mile Report Line	18
Start Levee Mile	2.53
End Levee Mile	2.56
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking south at dense vegetation on landside toe.	
richard_s_20120529_450.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.63	05/22/2012 05/22/2012	Richard Willoughby

Levee Mile Report Line	21
Start Levee Mile	3.07
End Levee Mile	3.26
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Looking south from station 0+00. Image taken by Herman Phillips

richard_s_20120313_136.jpg



Levee Mile Report Line	21
Start Levee Mile	3.07
End Levee Mile	3.26
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Looking north from station 10+00. Image taken by Herman Phillips

richard_s_20120313_137.jpg



Levee Mile Report Line	21
Start Levee Mile	3.07
End Levee Mile	3.26
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Looking north at station 0+00. Image taken by Herman Phillips

richard_s_20120313_138.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.63	05/22/2012 05/22/2012	Richard Willoughby

Levee Mile Report Line	21
Start Levee Mile	3.07
End Levee Mile	3.26
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Looking west at berm from station 1+00. Image taken by Herman Phillips	
richard_s_20120313_139.jpg	



Levee Mile Report Line	22
Start Levee Mile	3.16
End Levee Mile	3.16
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Looking south at unauthorized ramp on waterside slope.	
richard_s_20120313_132.jpg	



Levee Mile Report Line	25
Start Levee Mile	3.82
End Levee Mile	3.82
Location	Land Side
Category	Earthen Levee
Item	Animal Control
Looking at typical view of a squirrel hole on landside shoulder.	
richard_s_20120313_134.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.63	05/22/2012 05/22/2012	Richard Willoughby

Levee Mile Report Line	27
Start Levee Mile	4.04
End Levee Mile	4.04
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Looking north at electrical conduit on waterside slope.	
richard_s_20120529_453.jpg	



Levee Mile Report Line	29
Start Levee Mile	4.54
End Levee Mile	4.61
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking south at irrigation ditch and erosion at landside toe.	
richard_s_20120529_454.jpg	



Levee Mile Report Line	30
Start Levee Mile	4.68
End Levee Mile	4.68
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Looking south at grapevines and fruit trees on waterside berm.	
richard_s_20120313_135.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.63	05/22/2012 05/22/2012	Richard Willoughby

Levee Mile Report Line	32
Start Levee Mile	5.05
End Levee Mile	5.11
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking northeast at irrigation ditch at landside toe.	
richard_s_20120529_455.jpg	



Levee Mile Report Line	33
Start Levee Mile	5.12
End Levee Mile	5.12
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Looking north at abandoned pipes on waterside slope.	
richard_s_20120313_131.jpg	



Levee Mile Report Line	38
Start Levee Mile	6.15
End Levee Mile	6.36
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking south at dense vegetation on landside toe.	
richard_s_20120529_457.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2063 Crows Landing

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	10.63	05/22/2012 05/22/2012	Richard Willoughby

Levee Mile Report Line	45
Start Levee Mile	8.54
End Levee Mile	8.54
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking south at hay stacked near landside toe,..	
richard_s_20120529_458.jpg	



Levee Mile Report Line	49
Start Levee Mile	9.67
End Levee Mile	9.67
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking northwest at landside erosion at levee toe.	
richard_s_20120529_459.jpg	



Levee Mile Report Line	50
Start Levee Mile	10.40
End Levee Mile	10.40
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving
Looking northwest at landside erosion at levee toe.	
richard_s_20120529_460.jpg	



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